

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1312624

Luminaire Tested: P3SQAS17R459727DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R459727DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

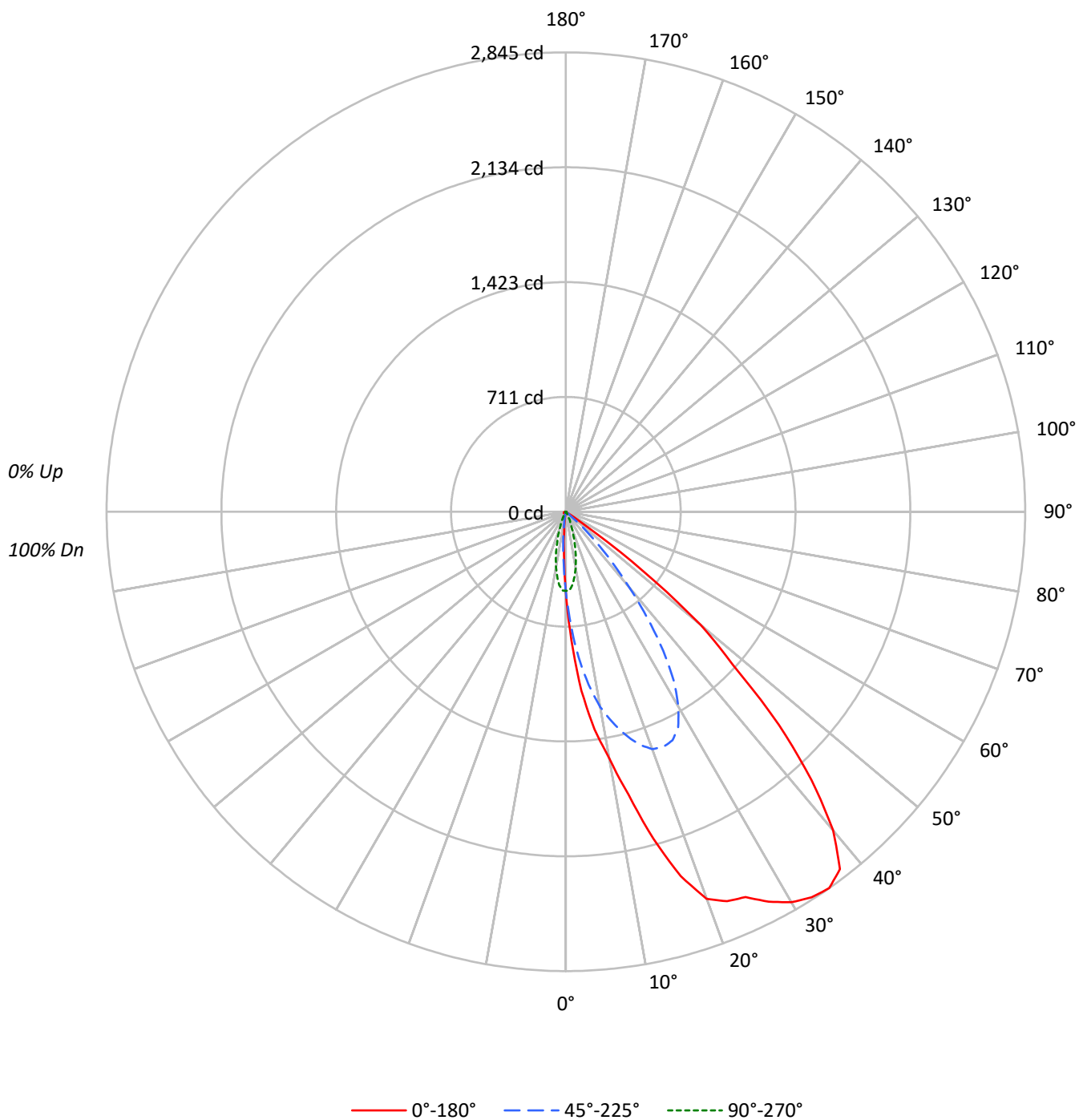
Lumens per Lamp: N/A
Luminaire Lumens: 1289.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	84475	84475	84475	84475	84475
5°	192520	156180	79024	31689	21610
10°	271273	214542	61085	6978	3200
15°	373837	255251	39012	2300	1926
20°	467444	286680	20344	1576	1576
25°	500245	296822	9425	1235	1425
30°	555233	277199	4295	1293	1491
35°	598105	220989	1367	1367	1808
40°	578756	136938	719	1686	2181
45°	454482	64592	779	2095	2630
50°	292018	7502	1152	2599	3456
55°	44349	661	1291	3243	4204
60°	758	758	1481	3720	4443
65°	897	897	1752	3953	5257
70°	1108	1108	2165	4330	5992
75°	732	1464	2861	4991	6455
80°	1091	2182	3174	5356	7438
85°	0	2174	4347	6323	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 454482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	4.2
10°-20°	194.1	15.1
20°-30°	341.0	26.5
30°-40°	387.2	30.0
40°-50°	250.7	19.4
50°-60°	49.2	3.8
60°-70°	6.0	0.5
70°-80°	5.0	0.4
80°-90°	2.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	588.7	45.7
0°-40°	975.9	75.7
0°-60°	1275.8	99.0
0°-90°	1289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1289.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	490	490	490	490	490	
5°	1114	903	457	183	125	119
15°	2097	1432	219	13	11	604
25°	2632	1562	50	6	8	1234
35°	2845	1051	6	6	9	1749
45°	1866	265	3	9	11	1406
55°	148	2	4	11	14	282
65°	2	2	4	10	13	2
75°	1	2	4	8	10	1
85°	0	1	2	3	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5
2.5°	796.6	794.5	797.7	776.2	775.1	758.9	754.6	736.3	711.5	699.6	671.6
5°	1113.6	1102.8	1102.8	1076.9	1068.3	1050.0	1018.7	979.9	947.6	903.4	855.9
7.5°	1358.3	1356.1	1356.1	1333.5	1311.9	1286.1	1244.0	1199.8	1148.1	1080.2	1011.2
10°	1551.2	1554.5	1544.8	1524.3	1493.0	1465.0	1415.4	1361.5	1297.9	1226.8	1135.1
12.5°	1794.9	1771.2	1763.6	1717.3	1677.4	1623.5	1564.2	1502.7	1424.0	1334.6	1231.1
15°	2096.7	2066.5	2036.3	1974.9	1908.1	1825.1	1732.3	1641.8	1540.5	1431.6	1302.2
17.5°	2366.2	2366.2	2326.3	2229.3	2143.1	2020.2	1895.1	1774.4	1654.7	1511.4	1349.7
20°	2550.5	2540.8	2510.7	2439.5	2341.4	2202.4	2039.6	1870.3	1725.9	1564.2	1376.6
22.5°	2610.9	2608.8	2609.8	2567.8	2489.1	2344.7	2145.2	1945.8	1764.7	1577.1	1363.7
25°	2632.5	2636.8	2647.6	2631.4	2572.1	2427.7	2209.9	1981.4	1776.5	1562.0	1314.1
27.5°	2722.0	2713.3	2725.2	2714.4	2647.6	2475.1	2222.8	1972.7	1750.7	1507.0	1225.7
30°	2792.0	2789.9	2810.3	2800.6	2713.3	2505.3	2211.0	1940.4	1687.1	1393.9	1086.6
32.5°	2831.9	2833.0	2838.4	2798.5	2669.1	2439.5	2152.8	1874.6	1567.4	1246.2	905.5
35°	2844.8	2838.4	2808.2	2710.1	2533.3	2287.5	2009.4	1718.3	1404.6	1051.1	715.8
37.5°	2788.8	2755.4	2677.8	2531.1	2326.3	2096.7	1826.1	1521.1	1181.5	830.1	533.6
40°	2574.3	2530.1	2432.0	2282.1	2091.3	1869.3	1592.2	1273.1	916.3	609.1	375.1
42.5°	2253.0	2230.4	2128.0	1997.5	1835.8	1611.6	1325.9	1002.5	678.1	420.4	239.3
45°	1866.0	1836.9	1772.2	1656.9	1529.7	1294.7	1028.4	717.9	462.5	265.2	118.6
47.5°	1399.2	1401.4	1357.2	1269.9	1144.8	948.6	703.9	481.9	290.0	136.9	27.0
50°	1089.9	1074.8	1012.2	922.8	777.2	631.7	454.9	304.0	153.1	28.0	2.2
52.5°	603.7	613.4	580.0	550.9	475.4	377.3	268.4	154.2	32.3	3.2	2.2
55°	147.7	156.3	149.8	153.1	158.5	141.2	108.9	30.2	3.2	2.2	2.2
57.5°	3.2	3.2	3.2	3.2	5.4	7.5	7.5	2.2	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
82.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5
2.5°	657.6	637.1	599.4	487.3	391.3	315.9	270.6	266.3
5°	813.9	758.9	679.1	457.1	288.9	183.3	132.6	125.0
7.5°	937.9	860.2	737.4	407.5	197.3	93.8	51.7	43.1
10°	1040.3	930.3	767.5	349.3	124.0	39.9	21.6	18.3
12.5°	1110.3	977.7	772.9	284.6	71.1	19.4	14.0	12.9
15°	1155.6	992.8	747.1	218.8	39.9	12.9	11.9	10.8
17.5°	1173.9	979.9	697.5	158.5	21.6	9.7	9.7	9.7
20°	1165.3	937.9	624.2	111.0	14.0	8.6	8.6	8.6
22.5°	1124.4	865.6	532.5	74.4	9.7	7.5	7.5	7.5
25°	1043.5	767.5	435.5	49.6	6.5	6.5	7.5	7.5
27.5°	922.8	646.8	333.1	33.4	5.4	6.5	7.5	7.5
30°	770.8	512.1	239.3	21.6	5.4	6.5	6.5	7.5
32.5°	612.3	373.0	157.4	12.9	4.3	6.5	7.5	8.6
35°	444.1	254.4	100.3	6.5	5.4	6.5	7.5	8.6
37.5°	311.5	166.0	58.2	4.3	5.4	6.5	8.6	8.6
40°	202.7	92.7	21.6	3.2	5.4	7.5	8.6	9.7
42.5°	105.6	32.3	4.3	3.2	5.4	7.5	9.7	10.8
45°	27.0	4.3	1.1	3.2	6.5	8.6	10.8	10.8
47.5°	3.2	1.1	1.1	4.3	6.5	9.7	10.8	11.9
50°	1.1	2.2	2.2	4.3	6.5	9.7	11.9	12.9
52.5°	2.2	2.2	2.2	4.3	7.5	9.7	12.9	14.0
55°	2.2	2.2	2.2	4.3	7.5	10.8	12.9	14.0
57.5°	2.2	2.2	2.2	4.3	7.5	10.8	12.9	12.9
60°	2.2	2.2	2.2	4.3	7.5	10.8	12.9	12.9
62.5°	2.2	2.2	3.2	4.3	7.5	9.7	12.9	12.9
65°	2.2	3.2	3.2	4.3	7.5	9.7	11.9	12.9
67.5°	2.2	2.2	3.2	4.3	7.5	9.7	11.9	12.9
70°	2.2	2.2	3.2	4.3	6.5	8.6	10.8	11.9
72.5°	2.2	2.2	3.2	4.3	6.5	8.6	9.7	10.8
75°	2.2	2.2	3.2	4.3	5.4	7.5	9.7	9.7
77.5°	2.2	2.2	3.2	3.2	5.4	6.5	8.6	8.6
80°	2.2	2.2	3.2	3.2	4.3	5.4	6.5	7.5
82.5°	2.2	2.2	2.2	3.2	3.2	4.3	5.4	5.4
85°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)